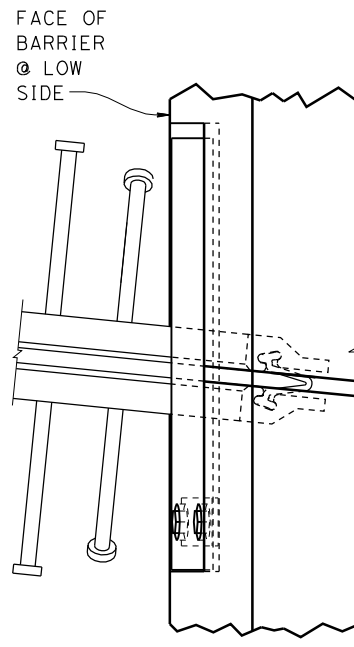
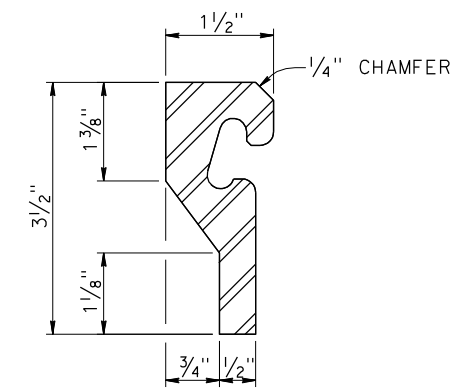


PLAN  
SKEW > 20°



PLAN  
SKEW ≤ 20°

STEEL EDGE MEMBER



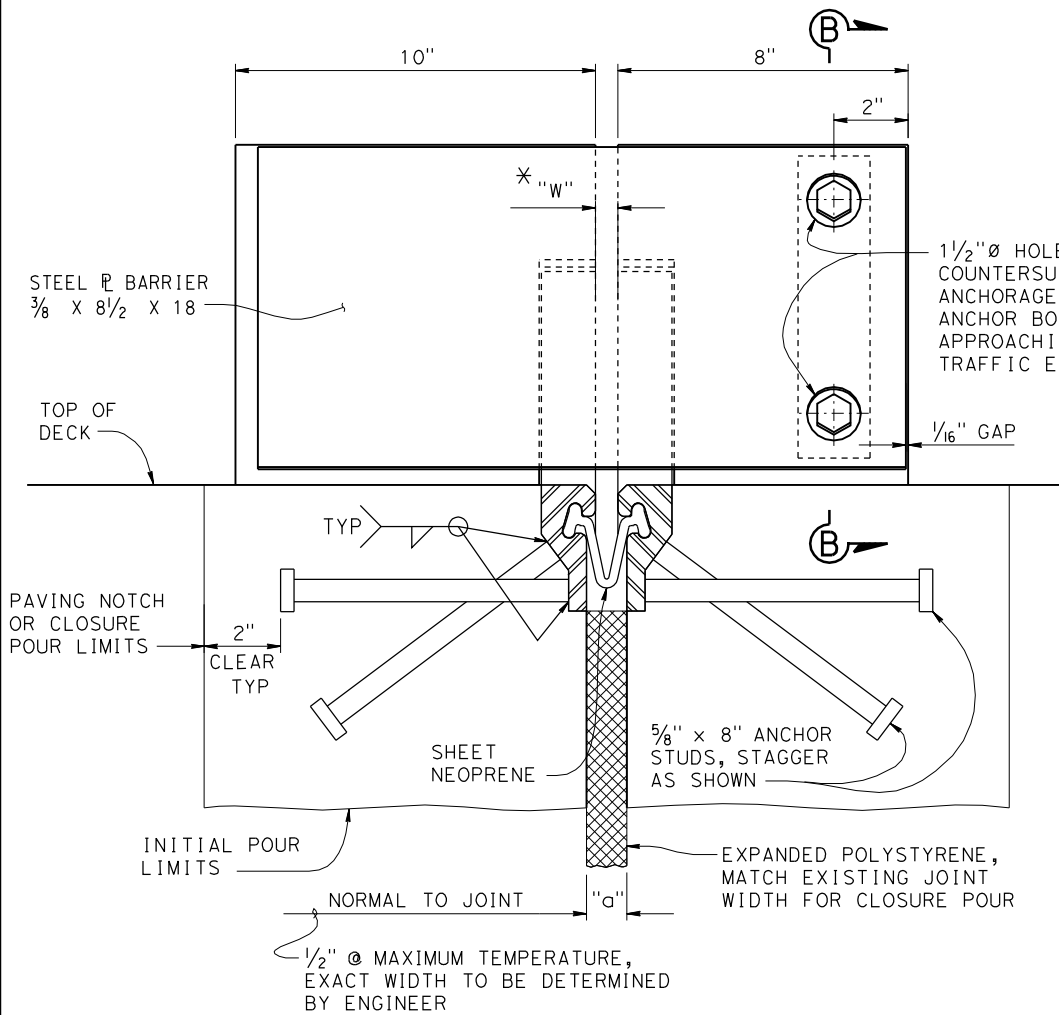
NOTES:

1. Full penetration butt welds may be substituted for fillet welds on all anchor studs
2. Alternate types of anchor studs may be permitted subject to the approval by the Engineer
3. Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified
4. Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication
5. Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners
6. Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install A325 bolts and sheet neoprene
7. Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less
8.  $\alpha_c$ ,  $\alpha_s$ , are the thermal expansion coefficients for concrete and steel respectfully.

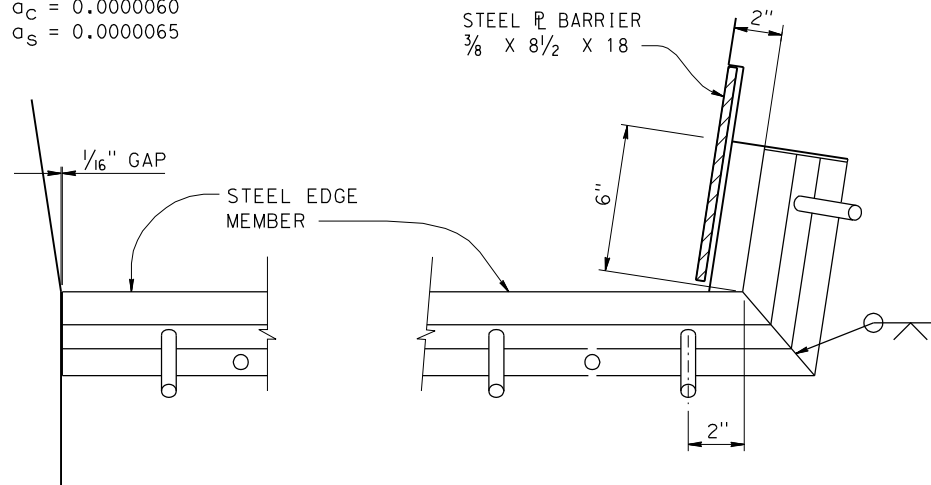
JOINT INFORMATION			"a" DIMENSIONS		
LOCATION	MOVEMENT RATING (MR)	SKEW	WINTER	SPRING & FALL	SUMMER

\* TO SET MINIMUM JOINT OPENING "W"

$$"W" = \begin{cases} \frac{1}{2} + [(\text{Max Str temperature in } F^{\circ}) - (\text{actual Str temperature in } F^{\circ})] * (\alpha_c \text{ or } \alpha_s) (12) (\text{contributory L in feet}) \\ \frac{1}{2} \text{ Minimum} \\ \alpha_c = 0.0000060 \\ \alpha_s = 0.0000065 \end{cases}$$

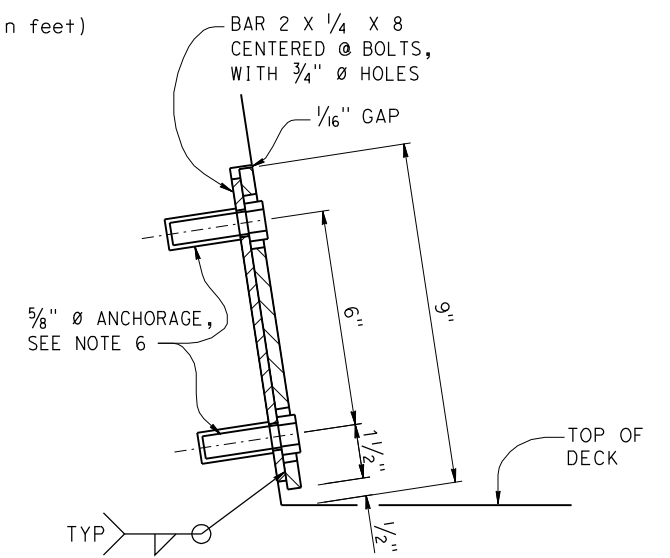


SECTION A-A



BARRIER DETAIL  
HIGH SIDE

BARRIER DETAIL  
LOW SIDE



SECTION B-B

NO SCALE

X

JOINT SEAL ASSEMBLY

MAXIMUM MOVEMENT RATING = 4"

STANDARD DRAWING	
FILE NO. <b>xs8-010</b>	APPROVAL DATE <u>October 2011</u>

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))

ORIGINAL SCALE IN INCHES  
FOR REDUCED PLANS

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF  
ENGINEERING SERVICES

BRIDGE NO.
X
POST MILE
X

UNIT: X  
PROJECT NUMBER & PHASE: X

CONTRACT NO.: X

DISREGARD PRINTS BEARING  
EARLIER REVISION DATES

REVISION DATES		SHEET	OF
8/22/11		X	X

FILE => \$REQUEST

TIME PLOTTED => \$TIME  
DATE PLOTTED => \$DATE  
USERNAME => \$USER